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FIG. 1**A.****Human BNP2:****Nucleotide sequence:**

atggatccccagacagcaccccccggcgctcctgtcttcgtcatctggcttcgtggaggcggtttccca
 cccgctggcagccccgggtcagcctcgactggaaacgtccgggtacaggagcagcgcaaccattgcagggcaaac
 tgcggagctgcaggtagggcagacatccctggagccccctccaggagagccccctccacagggtctggaaagtcccg
 gaggttagccaccgagggcatccgtgggcaccgcataatggcctctacaccctgcgggcaccacgaagccccaaatggt
 gcaagggtctggctgtttggggaggaagatggaccggatcagctccatgtggcctggctgcaaaaggtaagcaccac
 tgccaccccccggccgcctccccatccactgtgtgacactgttagagtcaacttgggttgtgtctctggaaaccac
 actcttga (SEQ ID NO:5)

Amino acid sequence:

MDPQTAPSRALLLLLFLHLAFLGGRSHPLGSPGSASDLETSGLQEQRNHLQGKLSE
LQVEQTSLEPLQESPRPTGVWKSREVATEGIRGHRKMVLYTLRAPRSPKMVQGSG
CFGRKMDRISSSSGLGCKGKHPLPPRPPSPIPVCCDTVRVTLGFVVSGNHTL (SEQ
 ID NO:3)

GKHPLPPRPPSPIPVC

B.**DOG BNP-2****Nucleotide sequence:**

atggagccctgcgcagcgctccccggccctctgtcttcgttgcacctgtgccactcgaggccggccccca
 cccgctggcgccgcagccccacctcggaagccctcggaagccctcggaagccctcggtgtggccgtcaggagctc
 tggccgtctgaaggacgcagttcagagctcaggcagacgcaggatggccctggaaacccctgcaccggagccacagcccc
 gcagaagccccggaggccggggaggaacgcggctgggggtccctgcacccatgacagtgtccctcaggccctgagaag
 actacgcagccccaaatgtatgcacaaggatcagggtgtttggccggaggatggaccggatcggtccctcagtgccctgg
 gctcaatgttaagccgcctccctgccacccctggctcccccagccccctgggtcgacccttggaaaccctctgg
 gtttgtgtctcggggatcacactctga

Amino acid sequence:

MEPCAALPRALLLLLFLHLSPLGGRPHPLGGRSPTSEASEASEASGLWAVQELLGR
LKDAVSELQAEQLALEPLHRSHPAEAPEAGEERPVGVLAHDSVLQALRRLRSP
KMMHKSGCFGRRLDIGSLSGCNGKPPPCHLGSPSPAPWVRPLEPLLGLLSRGI
TL

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FIG. 2**Human BNP-3****Nucleotide sequence:**

atggatccccagacagcaccccccggcgctcgtctgtcatctggcttcgtggagggtcggtccca
ccgcgtggcagccccgggtcagcctcgactggaaacgtccgggtacaggagcagcgcaaccattgcagggcaaac
tgtcgagctgcaggtggagcagacatccctggagccccccaggagagccccgtcccacaggtgtctggaagtcccgg
gaggttagccaccgagggcatccgtggcaccgaaaatgtcctctacaccctgcggcaccacgaagccccaaagatgtt
gcaagggtctggctgcttgggaggaagatggaccggatcagctcctccagtggctggctgcaaagtggcagaaag
agaaccaaacattcctcgtttcctctaa (SEQ ID NO:6)

Amino acid sequence:

MDPQTAPSRALLLLLFLHLAFLGGRSHPLGSPGSASDLETSGLQEQRNHLQGKLSE
LQVEQTSLEPLQESPRPTGVWKSREVATEGIRGHRKMVLYTLRAPRSPKMVQGSG
GFRKMDRISSSGLGCKVVQKENQTFPPGFL (SEQ ID NO:4)

VVQKENQTFPPGFL (SEQ ID NO:2)

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FIG. 3

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FIG. 4

BNP

SPKMQQSGCFGRKMDRISSSSLGCKVLRRH (SEQ ID NO:16)

DNP

EVKYDPCFGHKIDRINHVSNLGCPSLRDPRPNAPSTSADNP (SEQ ID NO:17)

ANP

SLRRSSCFGGRMDRIGAQSGLGNSFRY (SEQ ID NO:18)

CNP

GLSKGCFGLKLDRIGSMSGLGC (SEQ ID NO:19)